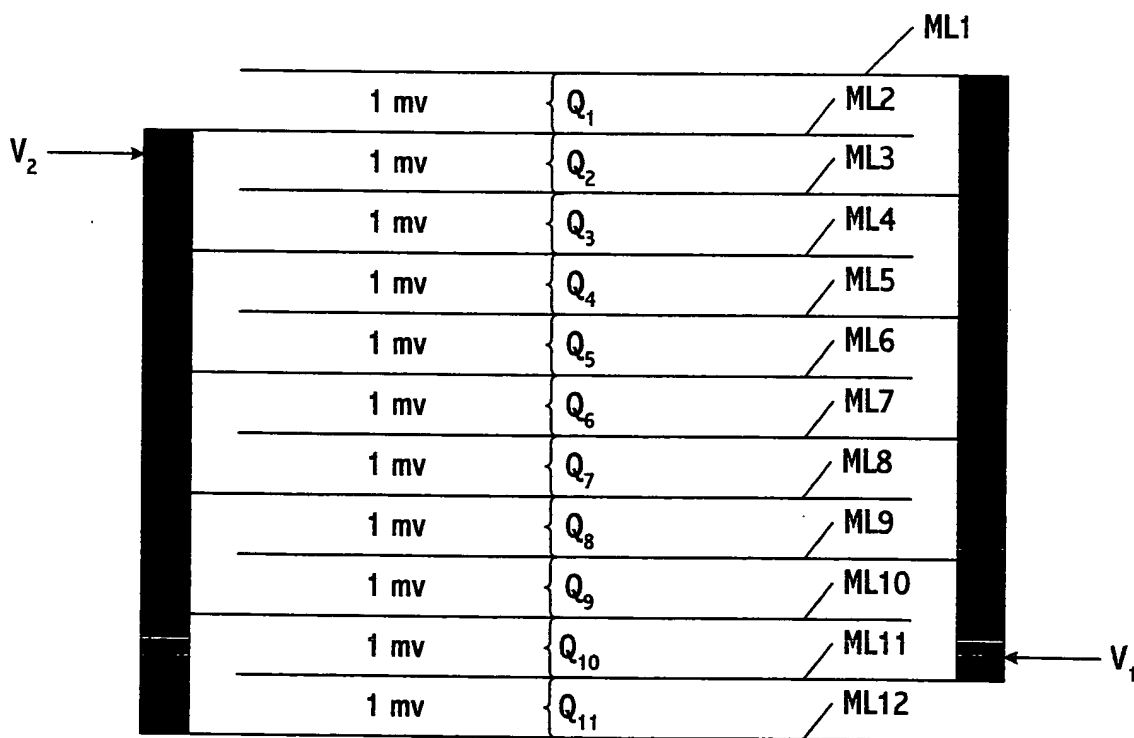
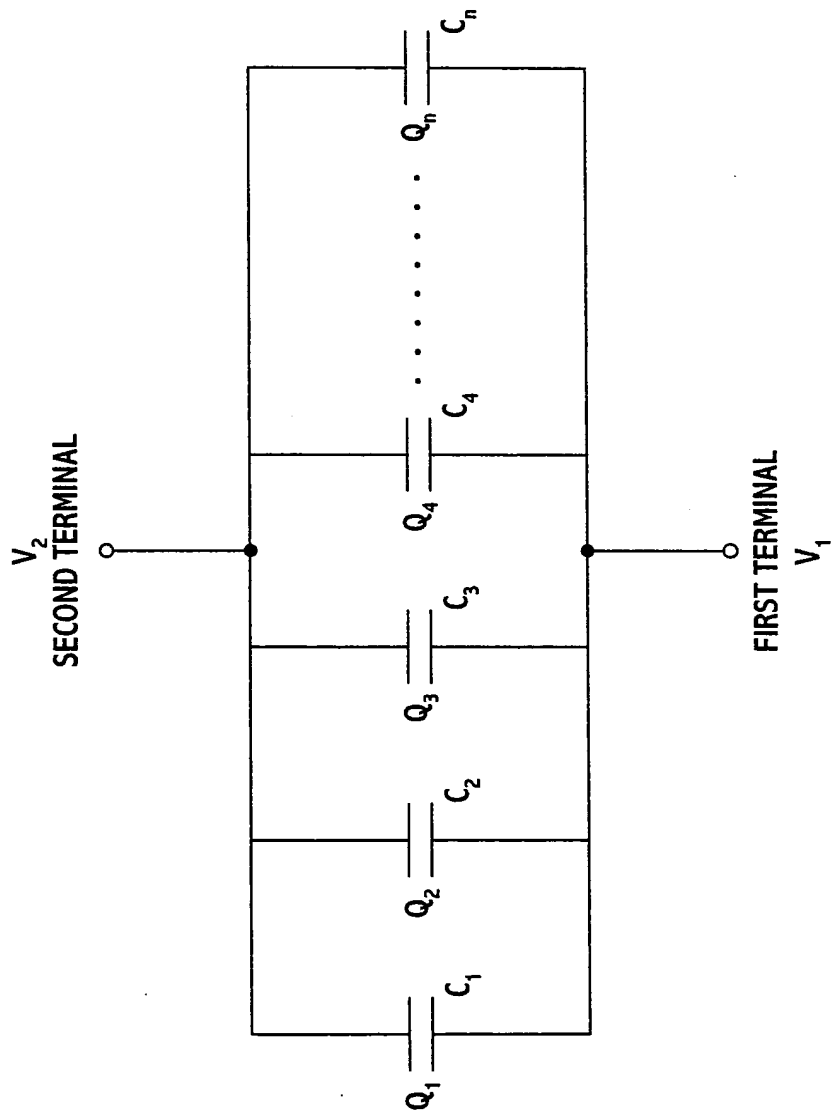


**FIG. 1**



$$Q_{\text{TOTAL}} = Q_1 + Q_2 + Q_3 + Q_4 + Q_5 + Q_6 + Q_7 + Q_8 + Q_9 + Q_{10} + Q_{11}$$

**FIG. 2**

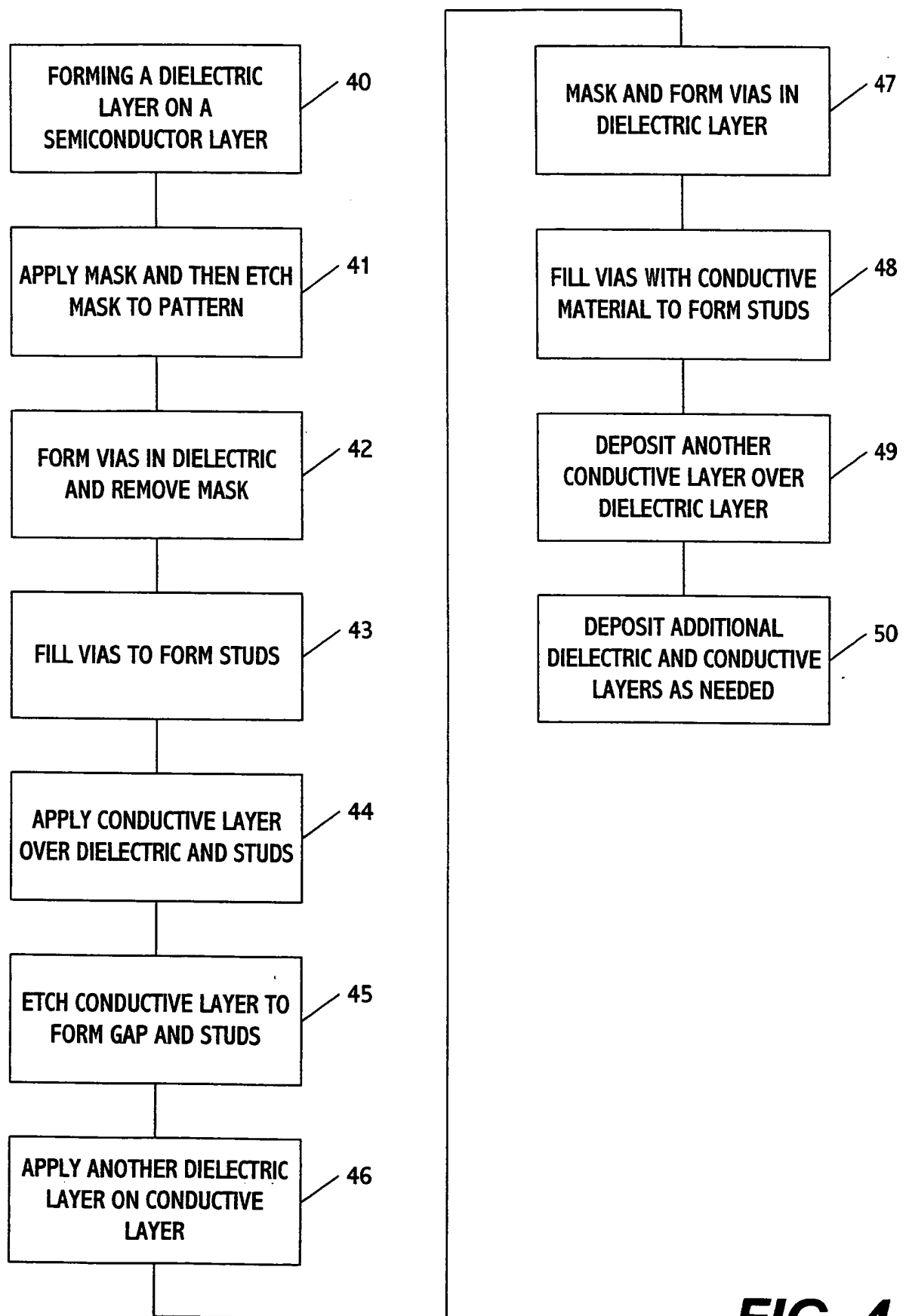


$$Q = CV$$

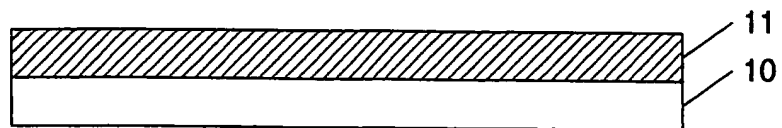
$$C_{\text{TOTAL}} = C_1 + C_2 + C_3 + \dots + C_n$$

$$\Delta V = V_2 - V_1$$

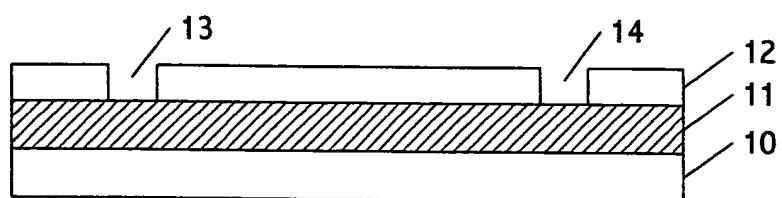
**FIG. 3**



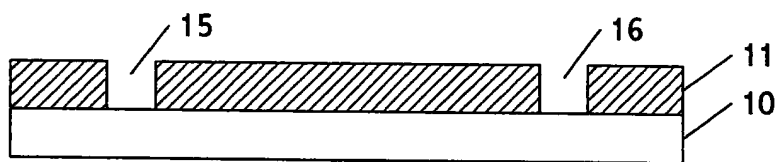
**FIG. 4**



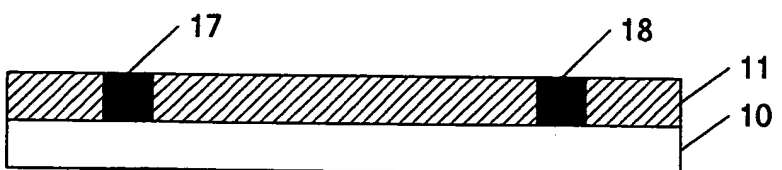
**FIG. 5(a)**



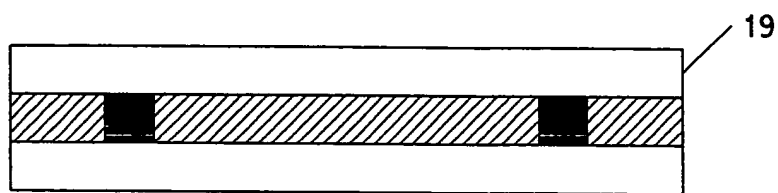
**FIG. 5(b)**



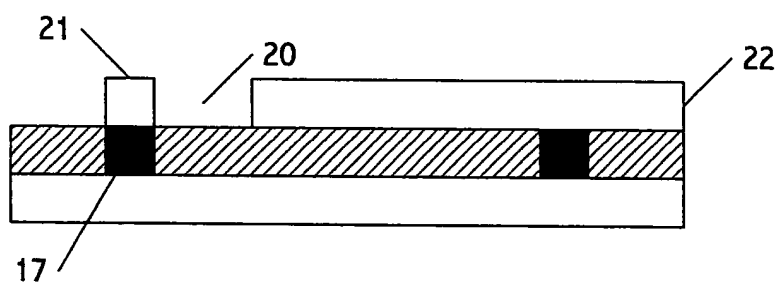
**FIG. 5(c)**



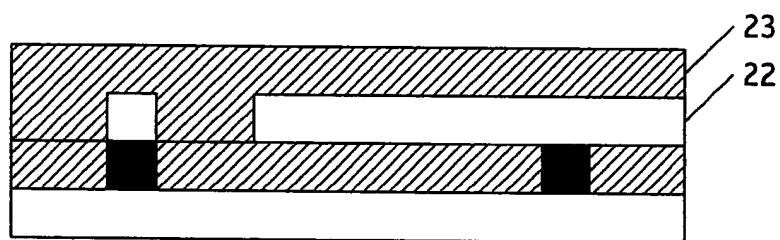
**FIG. 5(d)**



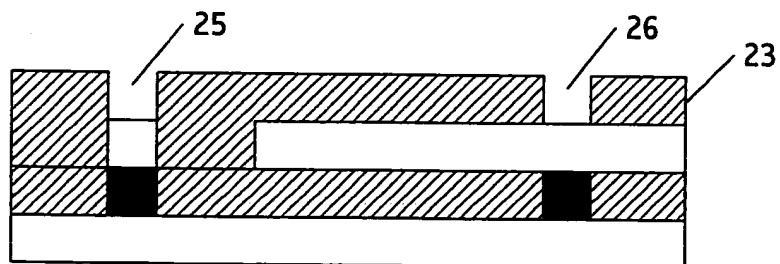
**FIG. 5(e)**



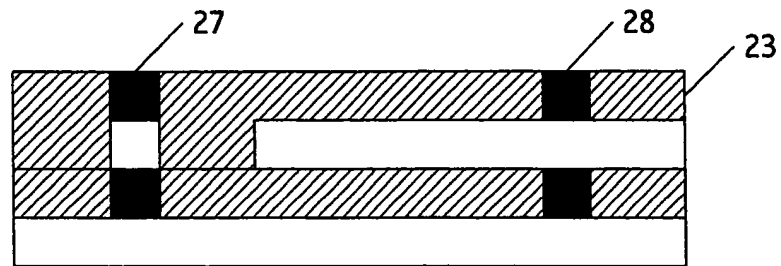
**FIG. 5(f)**



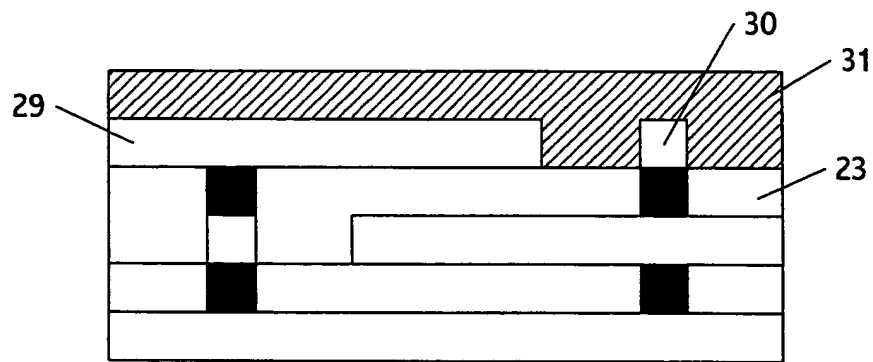
**FIG. 5(g)**



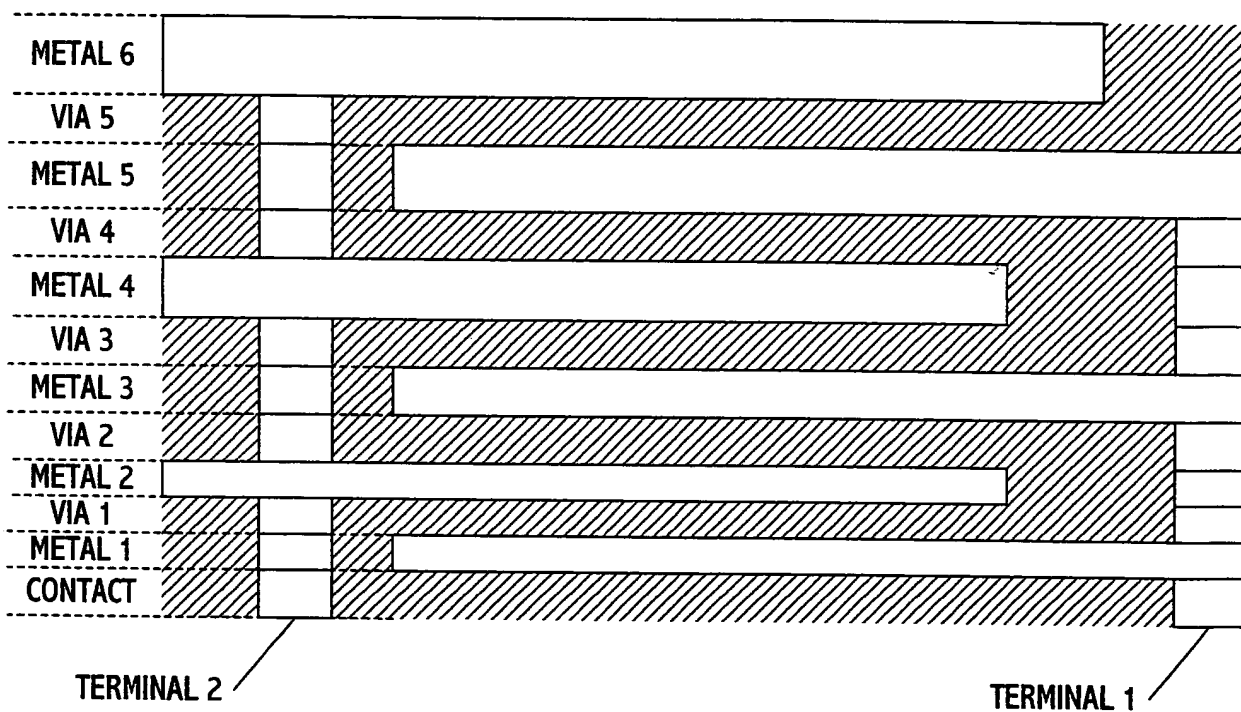
**FIG. 5(h)**



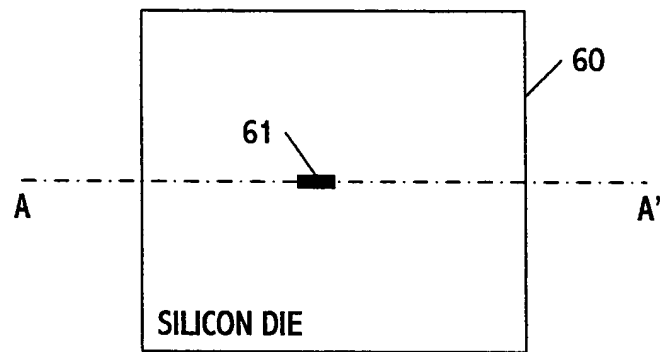
**FIG. 5(i)**



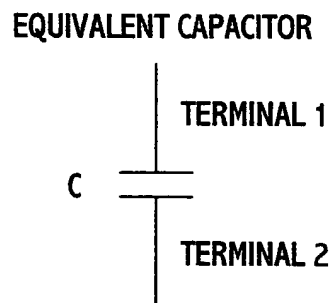
**FIG. 5(j)**



**FIG. 5(k)**

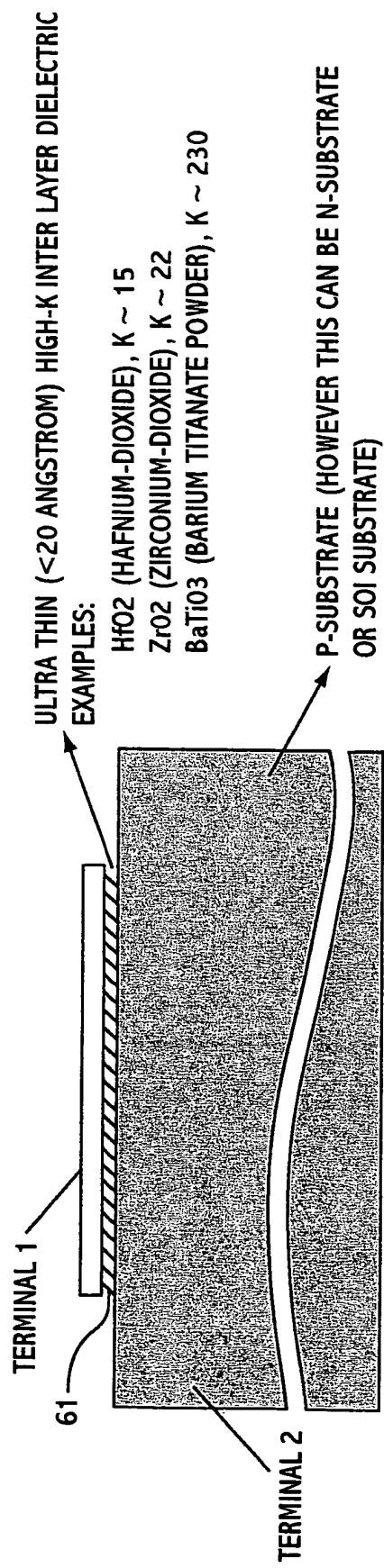


**FIG. 6(a)**

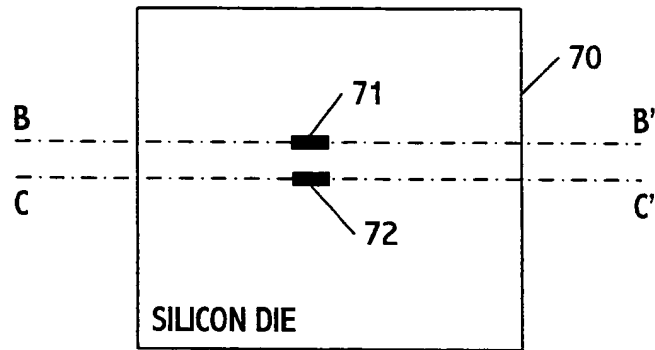


**FIG. 6(b)**

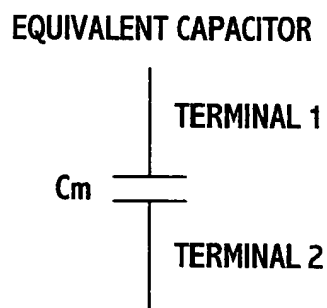




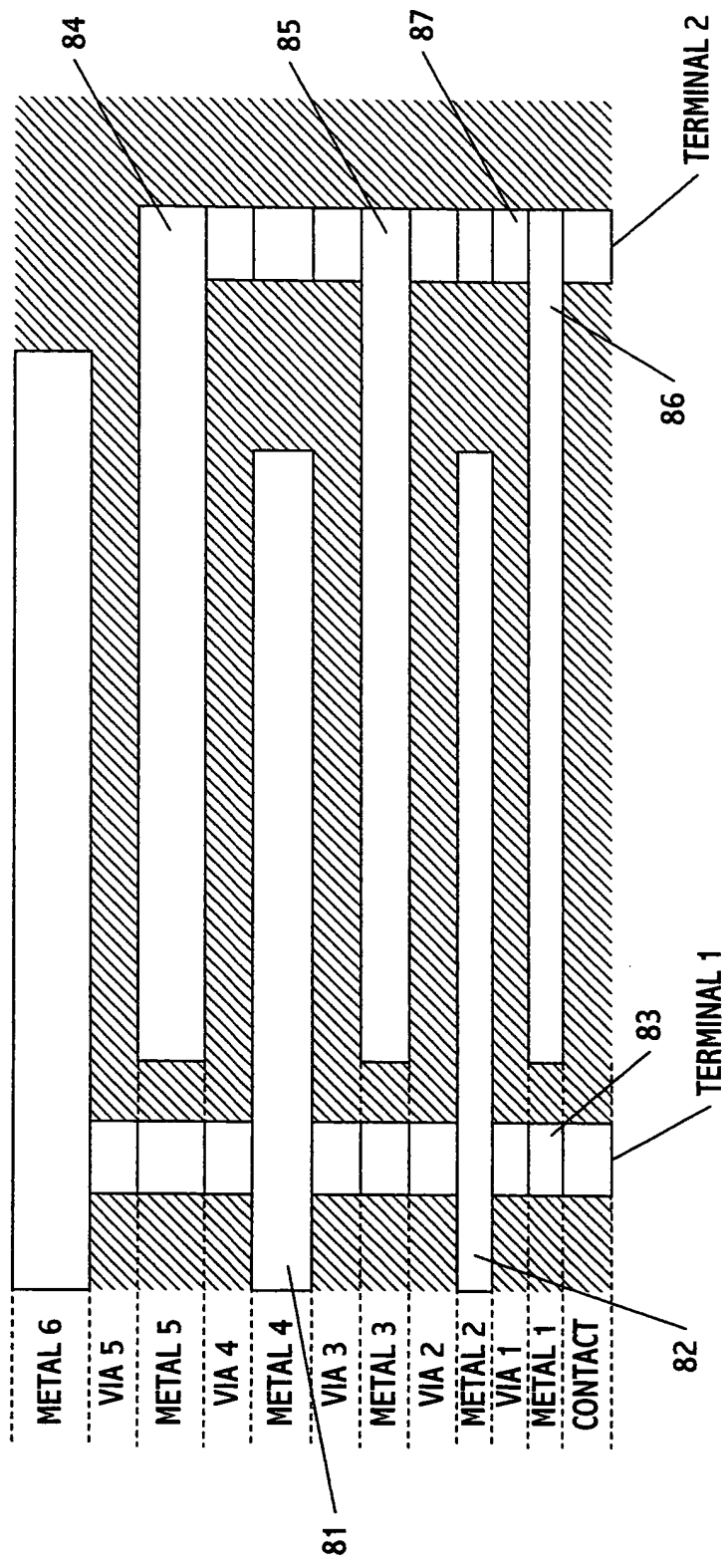
**FIG. 6(c)**



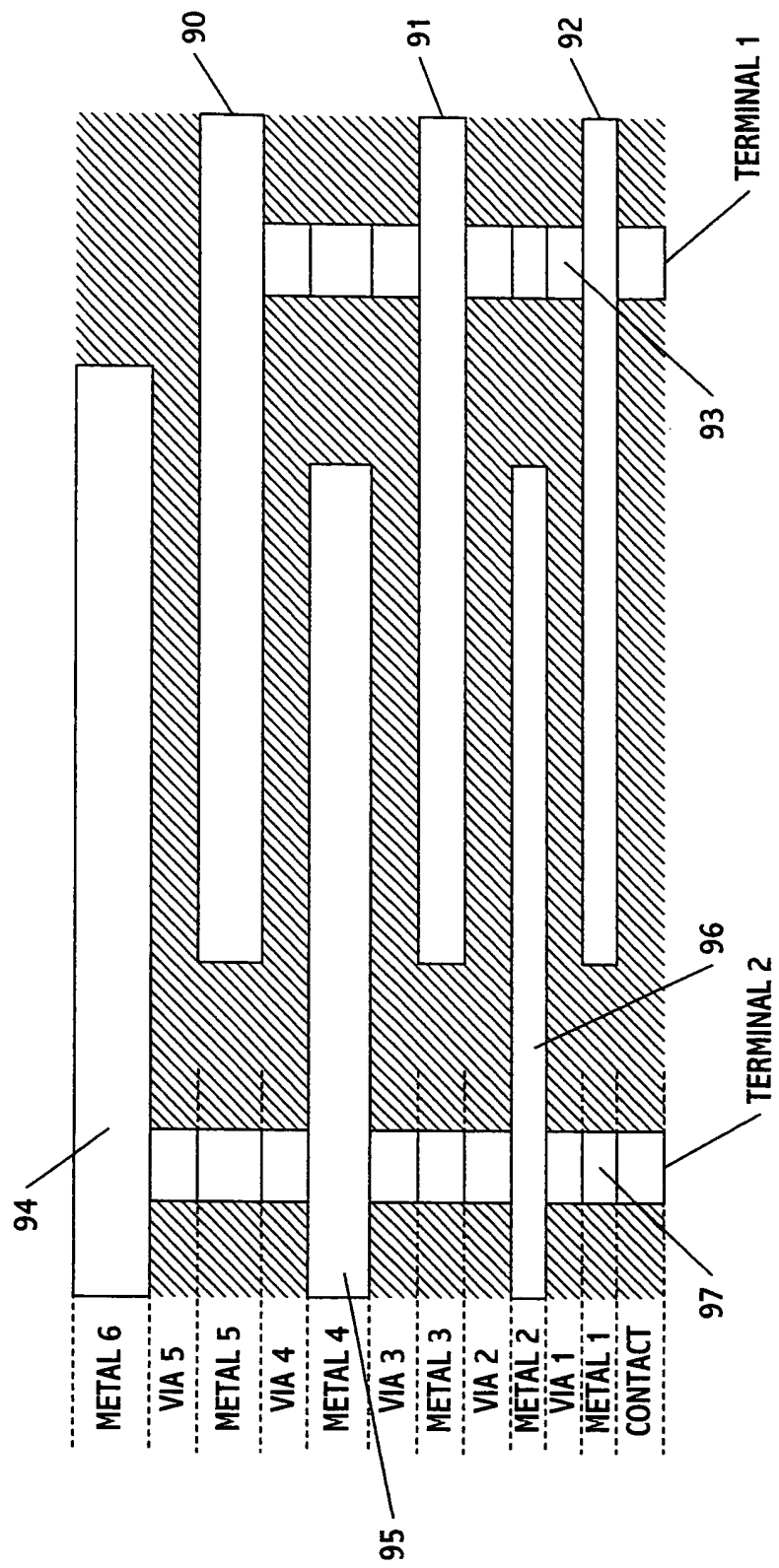
**FIG. 7(a)**



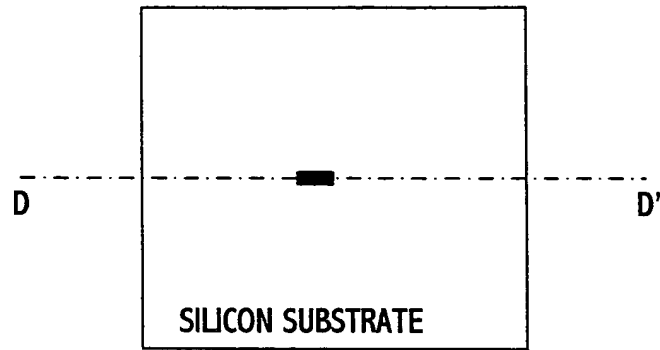
**FIG. 7(b)**



**FIG. 8(a)**

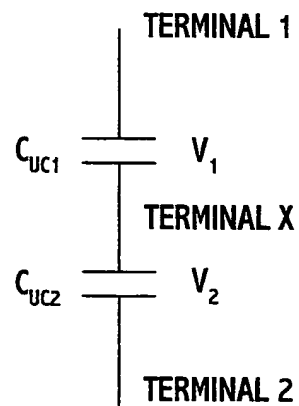


**FIG. 8(b)**

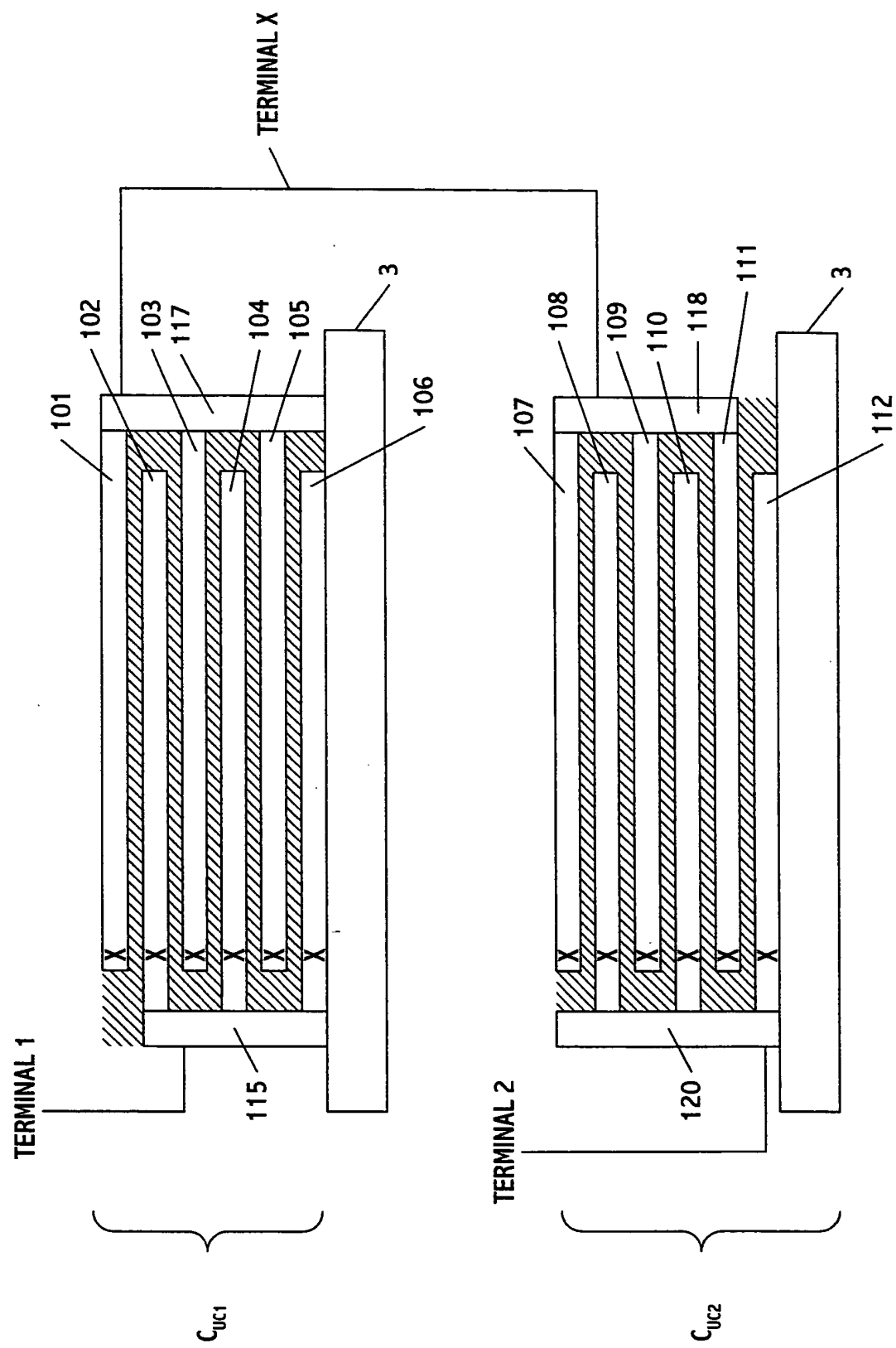


**FIG. 9(a)**

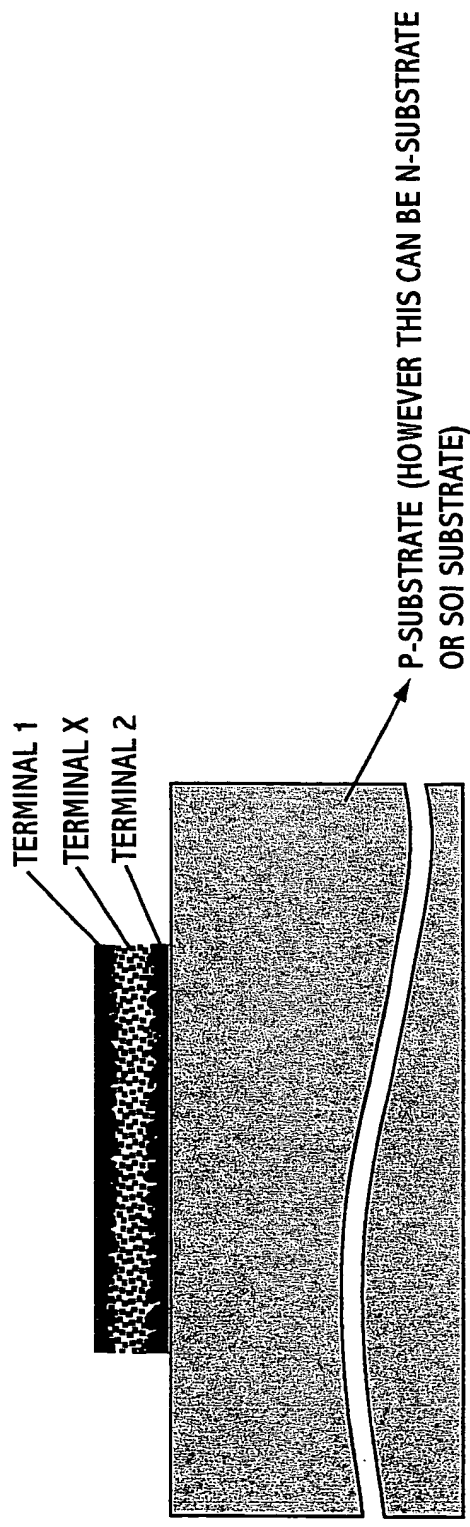
EQUIVALENT CAPACITOR



**FIG. 9(b)**



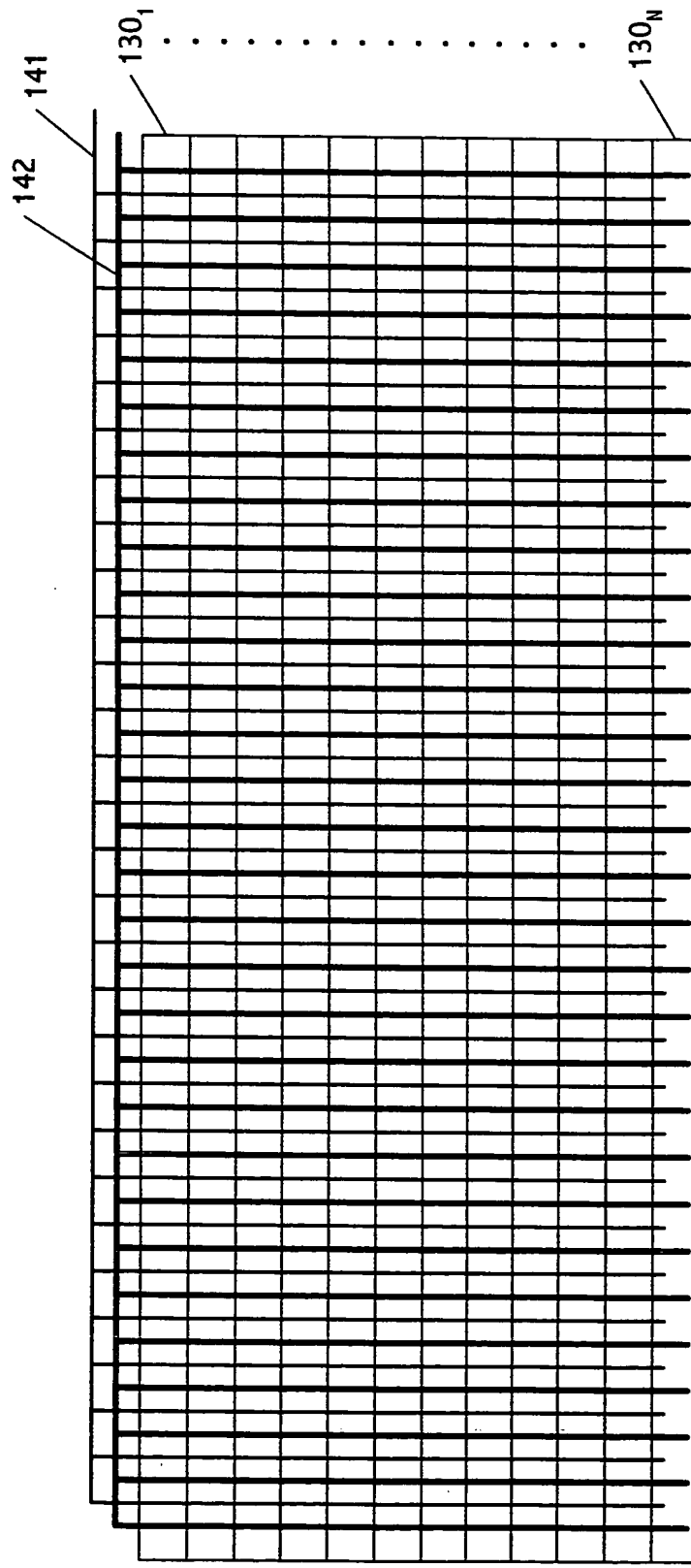
**FIG. 10**



ELECTRODE (TERMINAL 1) - EXAMPLE: POROUS CARBON OR DOPED SILICON. CAN BE CONDUCTIVE CARBON OR SILICON NANOTUBE  
 ELECTROLYTE (TERMINAL X) - EXAMPLE: POTASSIUM HYDROXIDE  
 ELECTRODE (TERMINAL 2) - EXAMPLE: POROUS CARBON OR DOPED SILICON. CAN BE CONDUCTIVE CARBON OR SILICON NANOTUBE

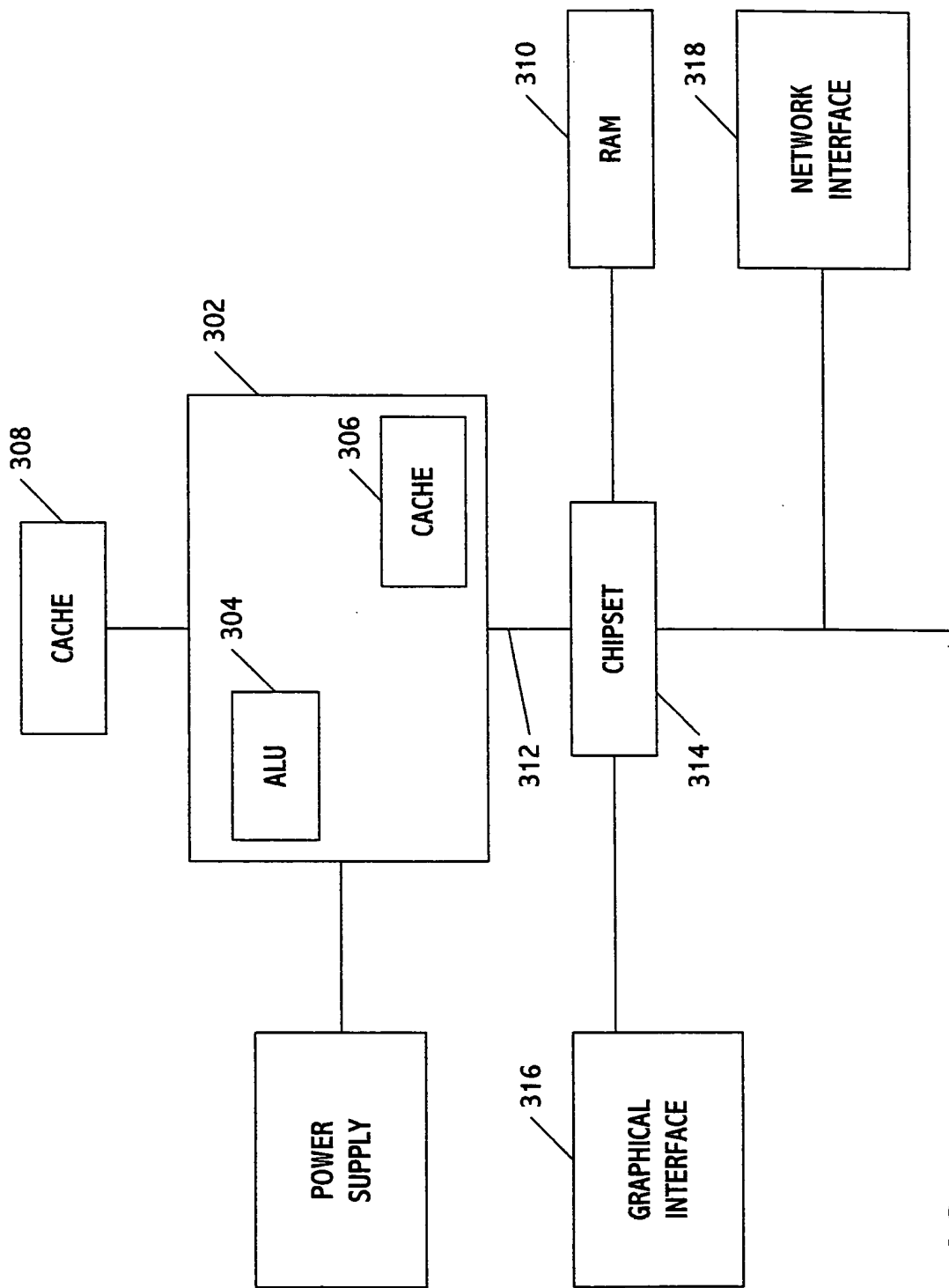
**FIG. 11**

EXAMPLE CROSS SECTION SHOWING STACKING OF MULTIPLE  
SUBSTRATE TO INCREASE THE CAPACITANCE PER UNIT AREA



**FIG. 12**





**FIG. 13**